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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/474,536	12/29/1999	QINGYU ZENG	24707A	2359
22889 75	10/02/2002			
OWENS CORNING 2790 COLUMBUS ROAD GRANVILLE, OH 43023			EXAMINER	
			TORRES VELAZQUEZ, NORCA LIZ	
			ART UNIT	PAPER NUMBER
			1771	1
			DATE MAILED: 10/02/2002	12

Please find below and/or attached an Office communication concerning this application or proceeding.

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; ,		Application No.	Ap ant(s)	——			
Office Action Summary		09/474,536	ZENG ET AL.				
	Office Action Summary	Examin r	Art Unit				
	The MALLING DATE CHI	Norca L. Torres-V lazquez	1771				
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet wi	th the correspondenc addres	S			
- External - External - External - If the - If NO - Failt - Any	MORTENED STATUTORY PERIOD FOR REPLEMAILING DATE OF THIS COMMUNICATION. Pensions of time may be available under the provisions of 37 CFR 1. TO SIX (6) MONTHS from the mailing date of this communication. TO period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailine and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re- ly within the statutory minimum of thirty will apply and will expire SIX (6) MON' e, cause the application to become AB, g date of this communication, even if ti	eply be timely filed / (30) days will be considered timely. FHS from the mailing date of this commun	ication.			
	Responsive to communication(s) filed on 09						
2a)		is action is non-final.					
3) Dispositi	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	ance except for formal matt Ex parte Quayle, 1935 C.D	ers, prosecution as to the me 0. 11, 453 O.G. 213.	rits is			
4)🖂	Claim(s) <u>1-9,11,15-18 and 20</u> is/are pending i	n the application.					
	4a) Of the above claim(s) is/are withdra						
5)	5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-9,11,15-18 and 20</u> is/are rejected.						
	Claim(s) is/are objected to.						
1	Claim(s) are subject to restriction and/or	election requirement					
Application	on Papers	oromon roquiroment.					
	The specification is objected to by the Examine						
10)□ T	he drawing(s) filed on is/are: a)□ accep	ted or b) objected to by the	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
11)L_ T	ne proposed drawing correction filed on	is: a) ☐ approved b) ☐ dis	approved by the Examiner.				
	If approved, corrected drawings are required in rep	ly to this Office action.	•				
	he oath or declaration is objected to by the Exa	miner.					
1	nder 35 U.S.C. §§ 119 and 120	•					
13) <u></u> A	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	119(a)-(d) or (f).				
a)□] All b)□ Some * c)□ None of:		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	I. Certified copies of the priority documents	have been received.					
2	2. Certified copies of the priority documents	have been received in App	lication No.				
3	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) □ Ac	knowledgment is made of a claim for domestic	the certified copies not rec	ceived.				
a) [knowledgment is made of a claim for domestic The translation of the foreign language prov	priority under 35 U.S.C. § 1	119(e) (to a provisional applica	ation).			
15) 🗆 Ac	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. &&	received.				
Attachment(s	s)	,	120 anu/of 121.				
2) Notice of 3) Information	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5\	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				
U.S. Patent and Trade PTO-326 (Rev. (04.043	on Summary	Part of Paner Ne				

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DETAILED ACTION

1. Claims 1-9, 11, 15-18 and 20 remain rejected under 35 U.S.C. 103(a) as being unpatentable over CHENOWETH et al. in view of SWAN et al.

a. Applicants argue that there is no disclosure in CHENOWETH of the concept of providing any form of perimeter flange in order to increase strength or rigidity.

In response to Applicants' argument that there is no disclosure in CHENOWETH to increase strength or rigidity by providing any form of perimeter flange, the fact that CHENOWETH uses their invention in applications such as motor vehicle headliner and the secondary reference SWAN et al. provides motivation to provide "reduced thickness areas" to promote the integrity of the laminate does not alter the conclusion that its use in a prior art device would be *prima facie* obvious from the purpose disclosed in the reference.

2. b. It is noted that Applicants did not address the rejection of Claims 1-2 under 35 U.S.C. 103(a) over HAINES et al. (US 5459291) in view of SWAN et al. in their response, but the amendments fail to distinguish the claimed invention from the applied prior art. Claims 1-2 remain rejected over HAINES et al. in view of SWAN et al.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-9, 11, 15-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over CHENOWETH et al. (US 4946738) in view of SWAN et al. (US 5773375).

CHENOWETH et al. discloses a non-woven fibrous product that can be used as insulation and as a motor vehicle headliner. (Column 1, lines 26-32) Their invention relates to a non-woven blanket or mat consisting of matrix of mineral, i.e., glass fibers and man-made, i.e., synthetic fibers. The synthetic fibers are of two types. The first type is conventional, homogeneous solid or hollow fibers of polyester, among other materials. The second type is bicomponent core and sheath fibers of materials, typically polyesters, having distinct melting points. The reference further discloses that a scrim and additional fabric or cosmetic coverings may be applied to one or both surfaces. (Column 2, line 67 – Column 3, lines 1-10).

CHENOWETH et al. further teaches that the density of the product may be adjusted by selection of fiber size or by adjusting the degree to which this blanket is compressed during forming operations. (Column 3, lines 40-44).

It is noted that CHENOWETH et al. is silent with respect to the claimed perimeter flange. However, it is reasonable to presume that the claimed flange is inherent to the invention of CHENOWETH et al. Support for said presumption is found in the use of the same starting materials (i.e. non-woven blanket, a scrim and additional fabric), like processes of making the articles (i.e., pressure molding by which the density of the product may be adjusted), and the production of similar end-products (i.e., insulation product, etc...). The CHENOWETH et al. teaches the use of their laminate in sheets, panels and complexly curved and configured products and that it has particular motor vehicle application as a motor vehicle headliner. As described in the paragraph above, the density of the product may be adjusted by adjusting the degree to which

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the blanked is compressed. The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594.

However, the CHENOWETH et al. reference does not teach a facing material that is water resistant.

SWAN et al. teach a laminate that has desirable acoustical insulation properties that can also act as a water shield or barrier to prevent water from entering a vehicle body. The reference teaches that it has broader applications and could be equally adapted for use in providing acoustical insulating and water barrier properties to other articles. The laminate includes a *water barrier layer* such as a planar thermoplastic film and it further teaches the use of polyolefins such as polypropylene, as the preferred materials for the film. SWAN et al. also teaches that the laminate can induce an optional scrim layer to increase the integrity of the laminate. (Column 5, line 53 – Column 6, lines 1-67).

The reference further teaches that the laminate is typically pressure molded to form reduced thickness areas along its outer periphery. In Fig.1 side edges 18 are shown.

Since both CHENOWETH et al. and SWAN et al. are from the same field of endeavor, insulation materials, the purpose disclosed by SWAN et al. would have been recognized in the pertinent art of CHENOWETH et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the insulation product and provide it with a film as one of the optional additional fabrics for the purpose of providing the laminate with water barrier properties as disclosed by SWAN et al. (Column 5, lines 58-60)

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Regarding to claims 1 and 3-4 it would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the insulation product with an perimeter flange with higher density than the rest of the blanket and with reduced thickness for the purpose of promoting the integrity of the laminate in that area to be easily handled by manufacturers during assembly operations as disclosed by SWAN et al. (Column 6, lines 44-47).

It is noted that both CHENOWETH et al. and SWAN et al. are silent with respect to the claimed static coefficients of friction. However, it is reasonable to presume that the claimed static coefficient of friction is inherent to the inventions of CHENOWETH et al. and SWAN et al. Support for said presumption is found in the use of the same starting materials (i.e. uses PTE fibers and polypropylene film), like processes of making the articles (i.e., pressure molding), and the production of similar end-products (i.e., acoustical insulation, etc...). The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594.

5. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over HAINES et al. (US 5459291) in view of SWAN et al.

HAINES et al. discloses a sound absorption laminate comprising a porous insulation substrate, such as, a thermoplastic glass or polymeric fiber blanket and a facing sheet with a high airflow resistance. (Abstract) The reference teaches that typical applications for this material include: automotive headliners and hood liners. (Column 1, lines 19-26)

However, the reference does not disclose a perimeter flange.

SWAN et al. teaches that the laminate is typically pressure molded to form reduced thickness areas along its outer periphery. In Fig.1 side edges 18 are shown.

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Since both HAINES et al. and SWAN et al. are from the same field of endeavor, the

purpose disclosed by SWAN et al. would have been recognized in the pertinent art of HAINES

et al.

It would have been obvious at the time the invention was made to a person having

ordinary skill in the art to modify the insulation product with an perimeter flange with higher

density than the rest of the blanket and with reduced thickness for the purpose of promoting the

integrity of the laminate in that area to be easily handled by manufacturers during assembly

operations as disclosed by SWAN et al. (Column 6, lines 44-47).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Norca L. Torres-Velazquez whose telephone number is 703-306-

5714. The examiner can normally be reached on Monday-Thursday 8:00-2:00 pm and alternate

Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terrel Morris can be reached on 703-308-2414. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9310 for regular

communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0661.

nlt

September 27, 2002

ELIZABETH M. COLE PRIMARY EXAMINER

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